

OS16: Vortex Motion

November 8, 2023

EX-3-A

- OS16-1 **Streamwise Pressure Gradient Effect on Görtler Vortices: a Numerical Study in the Compressible Regime**
9:10-9:30 Omar Es-Sahli, Adrian Sescu (Mississippi State University, USA), Zamir Koshuriyan (University of York, UK), Yuji Hattori (Tohoku University, Japan)
- OS16-2 **Flow Visualization and Analysis of Internal Fluids using Different Helix Structures**
9:30-9:50 Po-Yao Syu, Guan-Yu Lu, Faisal Maqbool, Wei-Hsiang Wang (National Chung-Hsing University, Taiwan), Ya-Yu Chiang (National Chung-Hsing University / National Taiwan University, Taiwan), Wei-Hsin Tien (National Taiwan University of Science and Technology, Taiwan)
- OS16-3 **Numerical Study on Sound Generation Process of an Oboe Reeds with DNS**
9:50-10:10 Yuki Nakahara, Rei Sumita, Ryoya Tabata, Sho Iwagami (Kyushu Institute of Technology, Japan), Takeshi Nanri (Kyushu University, Japan), Taizo Kobayashi (Kyushu University / AcsiomA Ltd., Japan), Yuji Hattori (Tohoku University, Japan), Kin'ya Takahashi (Kyushu Institute of Technology, Japan)
- OS16-4 **Numerical Study on Fundamental Process of a Thermoacoustic Engine**
10:10-10:30 Yo Tashima, Taijiro Ohno (Kyushu Institute of Technology, Japan), Takeshi Nanri (Kyushu University, Japan), Taizo Kobayashi (Kyushu University / AcsiomA Ltd., Japan), Yuji Hattori (Tohoku University, Japan), Kin'ya Takahashi (Kyushu Institute of Technology, Japan)
- OS16-5 **Compressibility Effect on Kelvin-Helmholtz and Rayleigh-Taylor Instabilities**
10:40-11:00 Yasuhide Fukumoto (Kyushu University, Japan), Rong Zou (Zhejiang Normal University, China), Kazuo Matsuura (Ehime University, Japan), Nobutaka Taniguchi (The University of Tokyo, Japan)
- OS16-6 **Stability Boundary of Inviscid Nonmonotonic Shear Flow**
11:00-11:20 Makoto Hirota (Tohoku University, Japan), Kengo Deguchi (Monash University, Australia)
- OS16-7 **Linear Short-Wave Instability in Helical Vortices**
11:20-11:40 Ivan Delbende (Sorbonne Université, France), Yuji Hattori (Tohoku University, Japan), Maurice Rossi, Yonghui Xu (Sorbonne Université, France)
- OS16-8 **Nonlinear Development of Instability of Two-Dimensional Taylor-Green Vortices in Rotating Fluid**
11:40-12:00 Naoya Ueno, Makoto Hirota, Yuji Hattori (Tohoku University, Japan)
- OS16-9 **Vortical Flow Derived from Local Flow Geometry and its Relationships to Flow Structure of Finite-Scale Vortex in Homogeneous Isotropic Turbulence**
13:20-13:40 Katsuyuki Nakayama (Aichi Institute of Technology, Japan)
- OS16-10 **Quasi-Steady State of a Hub Vortex Under Multi-Polar Strain Induced by Satellite Vortices**
13:40-14:00 Aditya Sai Pranith Ayapilla, Yuji Hattori (Tohoku University, Japan)

- OS16-11 **Steady Translation of a Weakly Compressible Hollow Vortex Pair**
14:00-14:20 Vikas Krishnamurthy (IIT Hyderabad, India), Stefan Llewellyn Smith (UCSD, USA)
- OS16-12 **Unsteady Motion and Wake of a Thin Aerofoil Using Discrete Vortex Method**
14:50-15:10 Ching Chang, Pin-Yuan Tseng (National Tsing Hua University, Taiwan)
- OS16-13 **Numerical Study of Point-vortex Motions on Filtered-Euler Flows**
15:10-15:30 Takeshi Gotoda (Tokyo Institute of Technology, Japan)
- OS16-14 **Quasi-Geostrophic Vortex Vertical Alignment in Near Collapse Interactions**
15:30-15:50 Jean N. Reinaud (University of St Andrews, UK), Xavier Carton (IUEM/UBO/LPO, France)
- OS16-15 **A Monte Carlo Approach to the N-vortex Problem on the Unit Sphere**
15:50-16:10 Kota Takeda (Kyoto University / RIKEN Center for Computational Science, Japan), Takashi Sakajo (Kyoto University, Japan)